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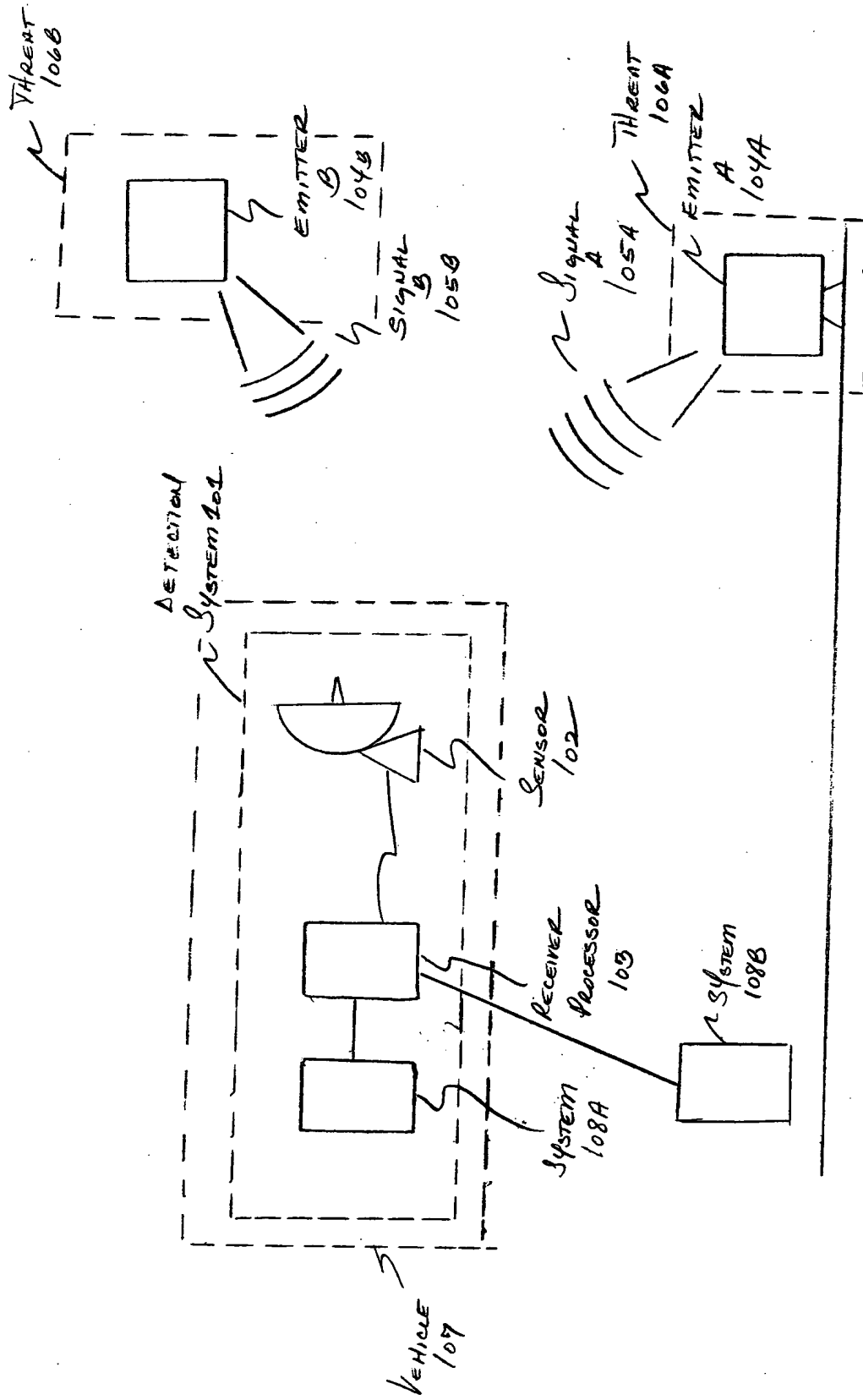


FIGURE 1

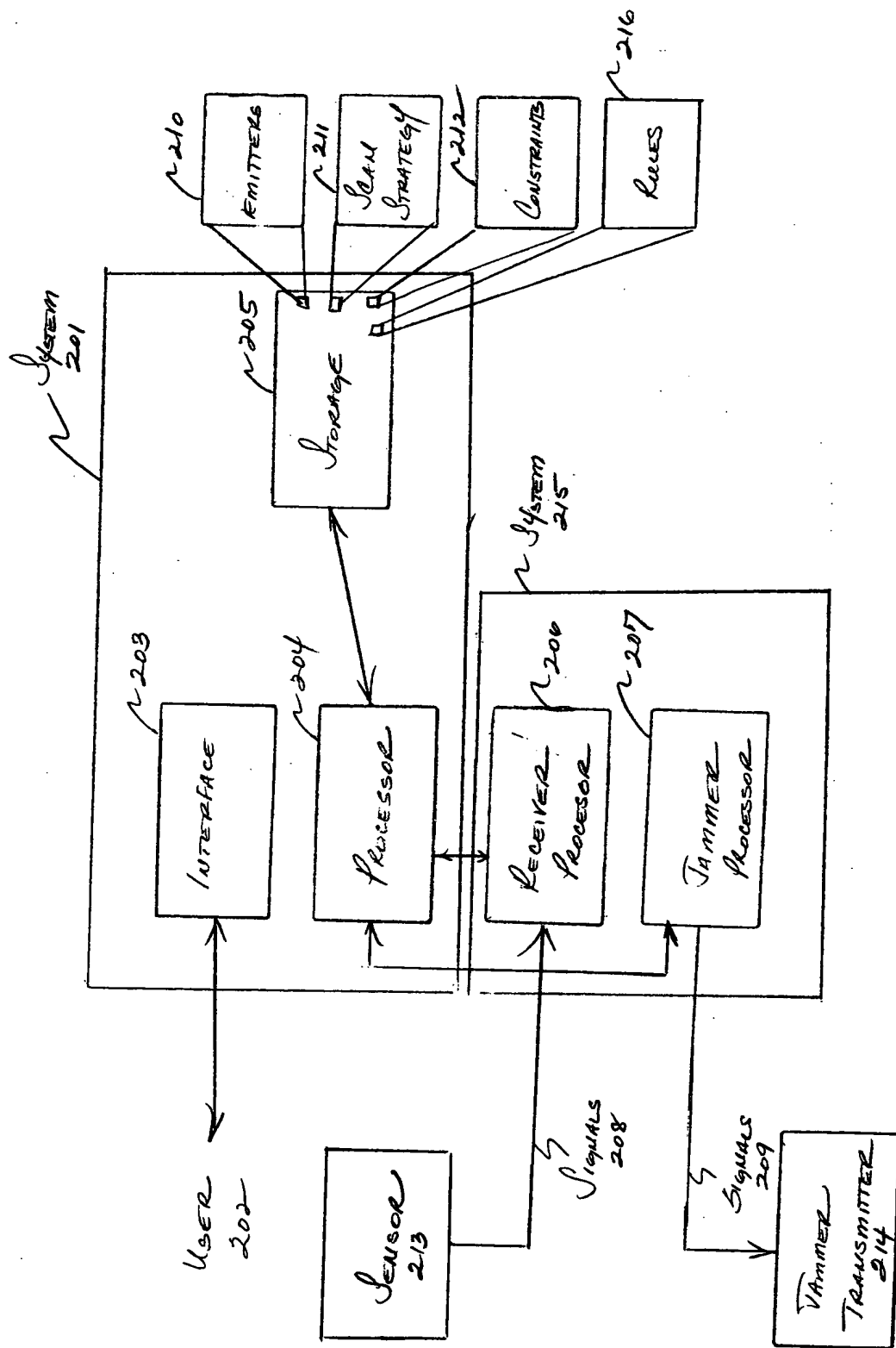
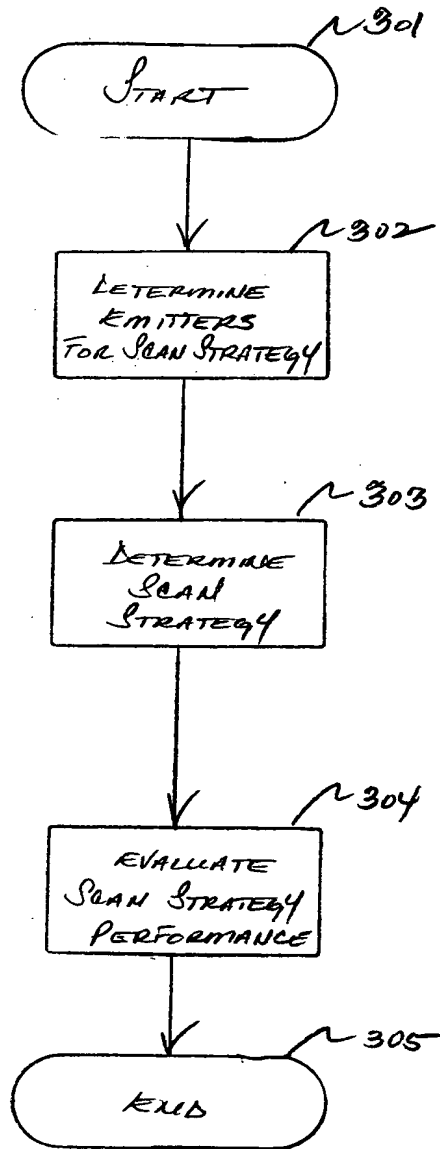


Figure 2



PROCESS  
300

FIGURE 3

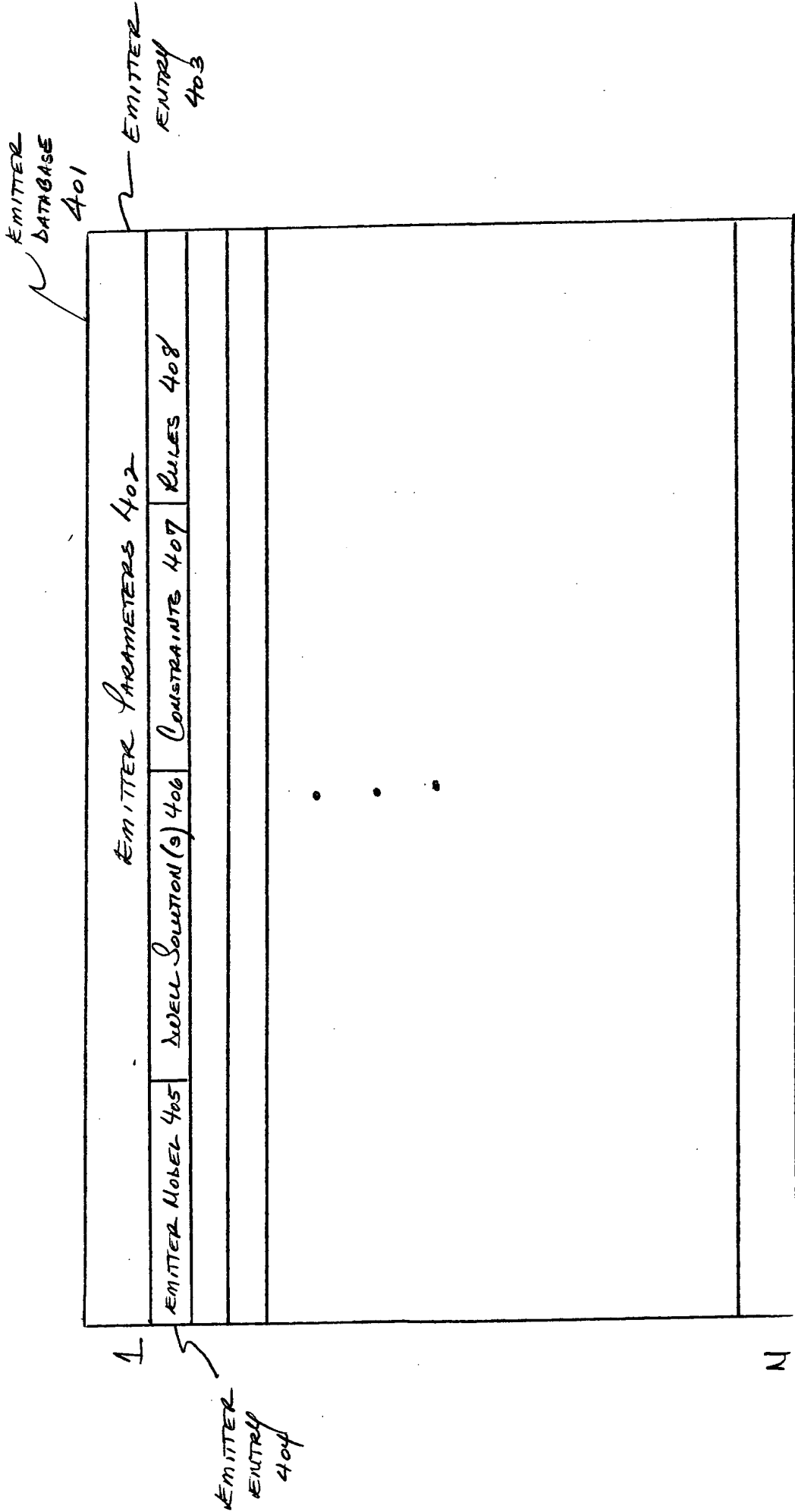


Figure 4

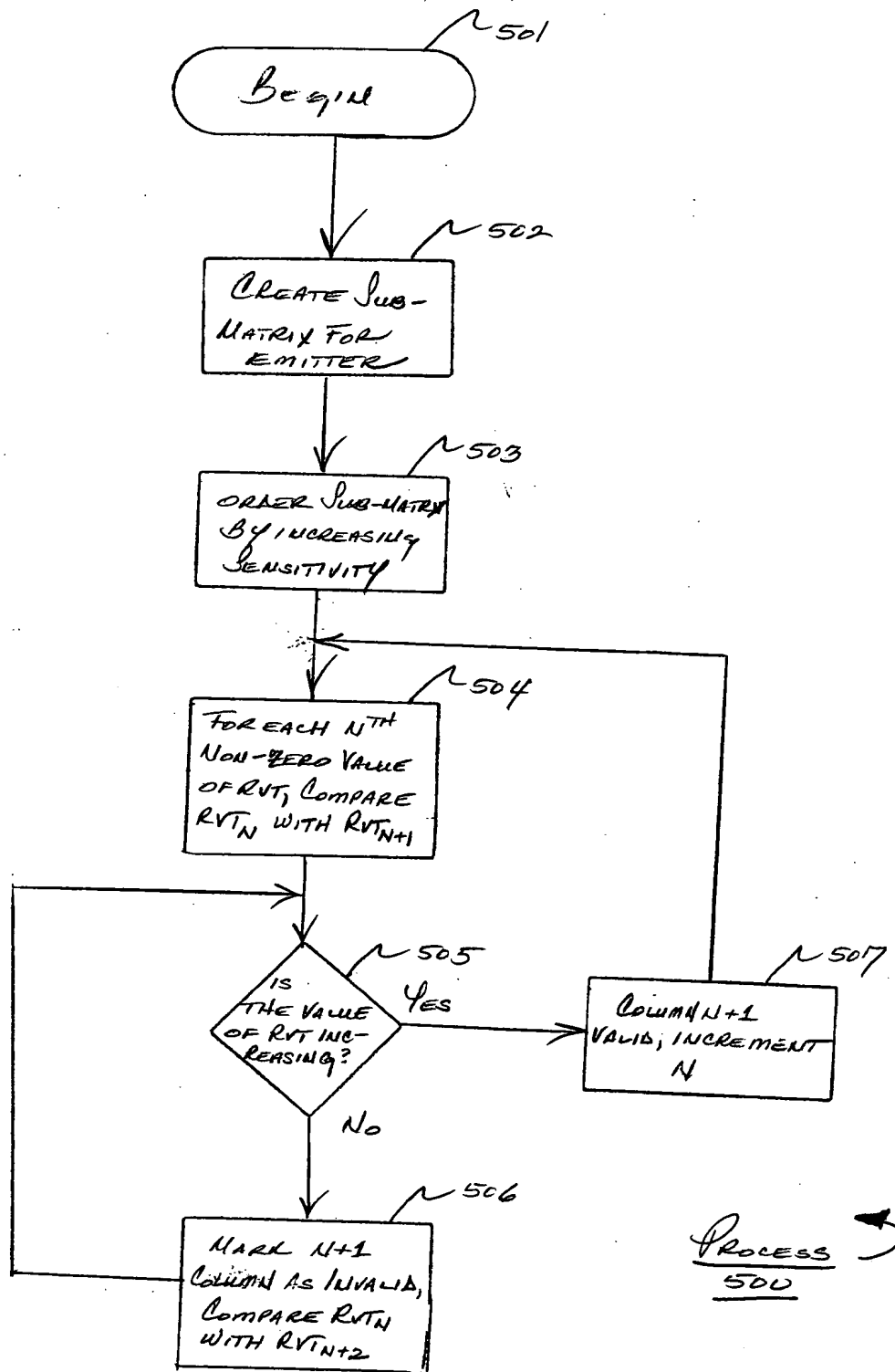


FIGURE 5

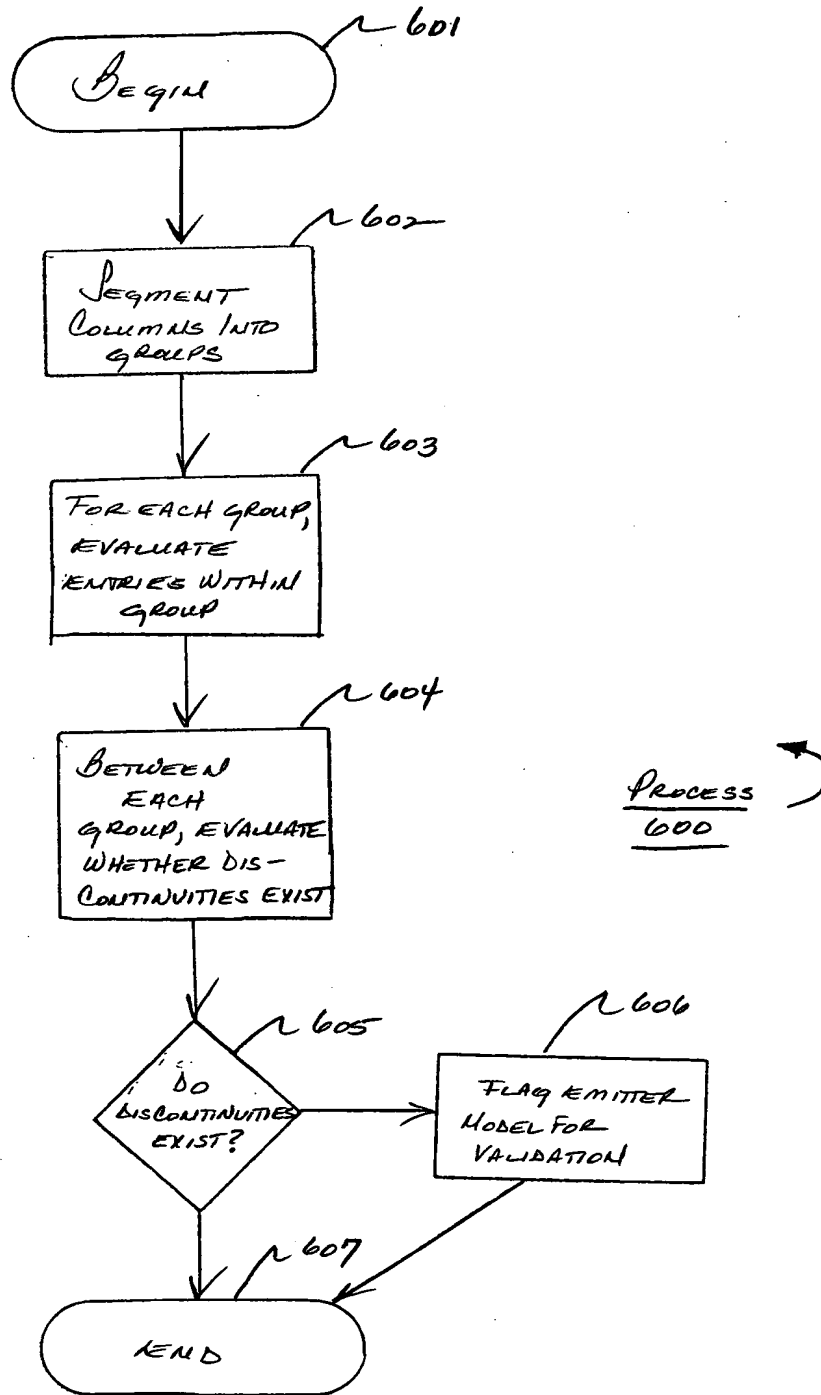


FIGURE 6

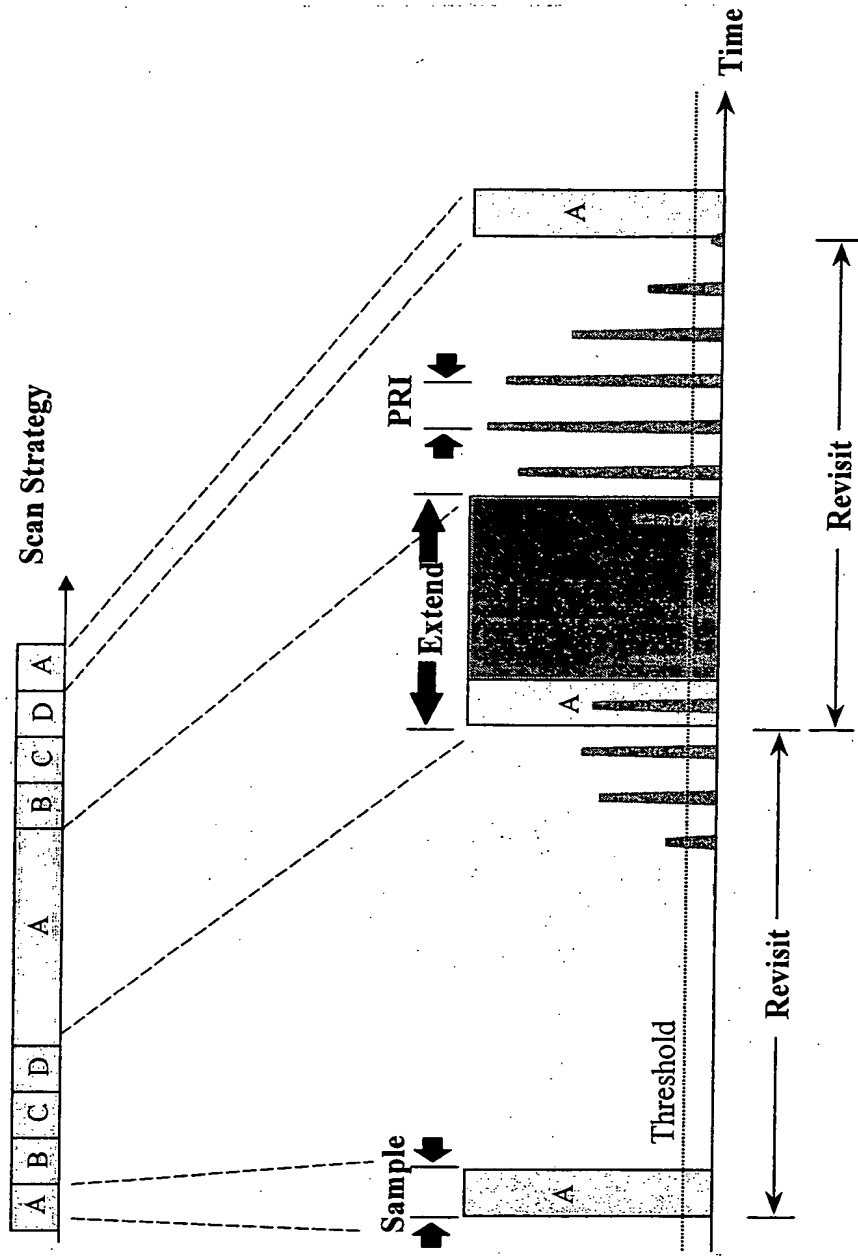


Figure 7



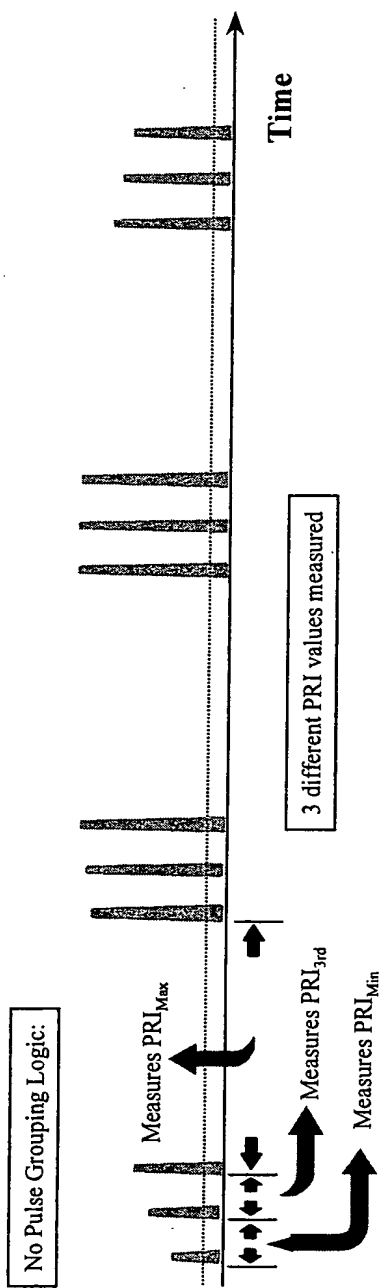


Figure 8A

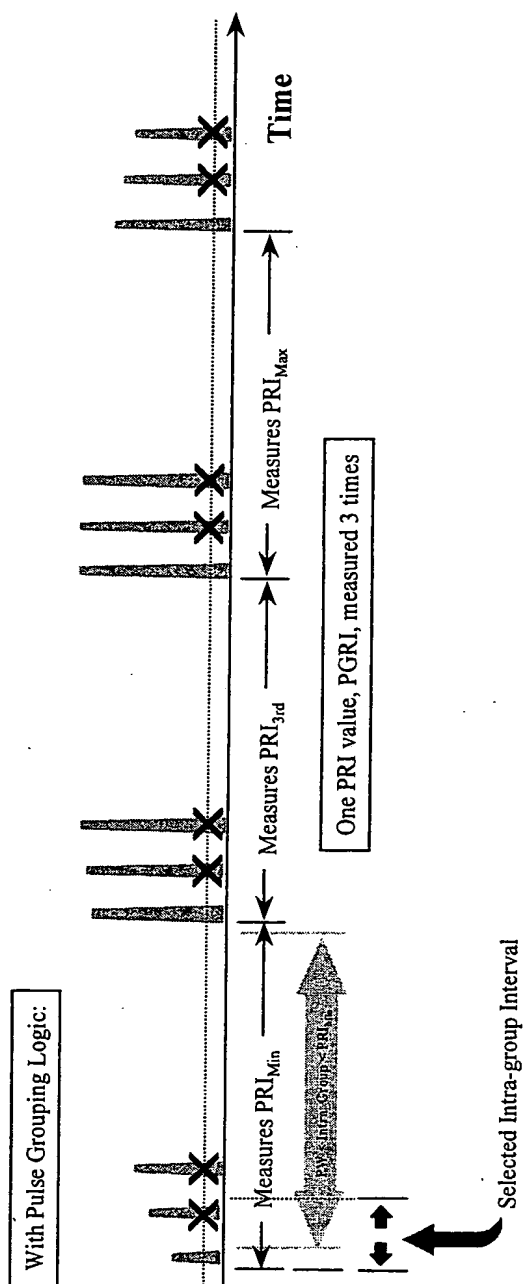


Figure 8B

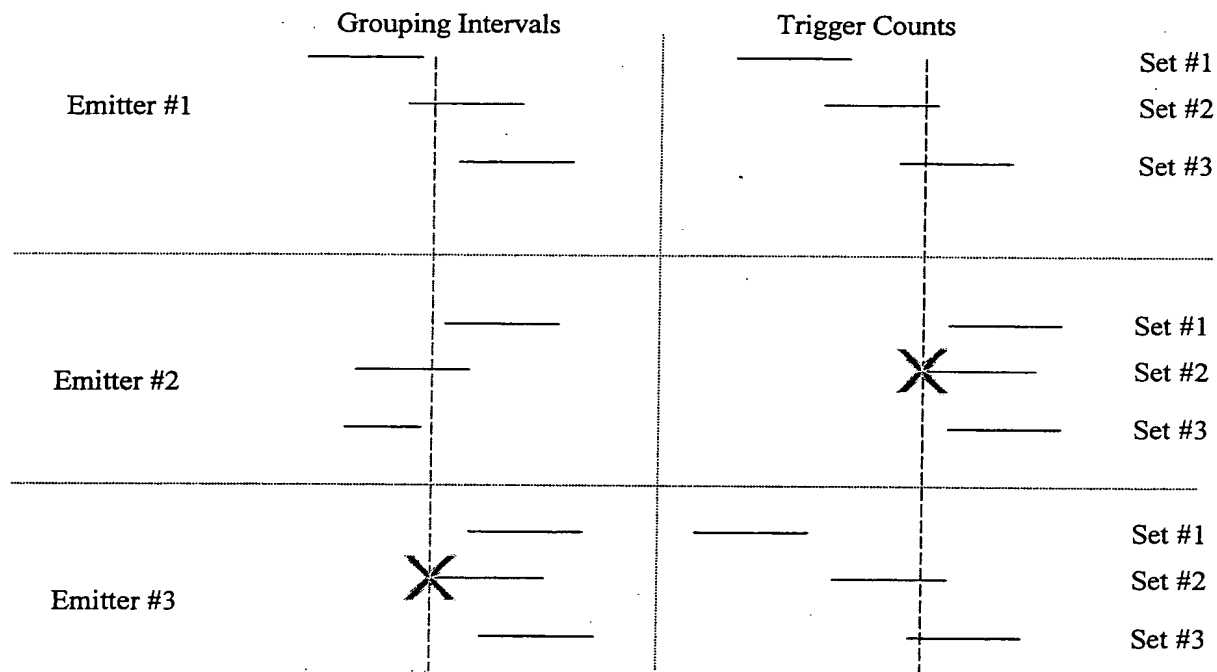
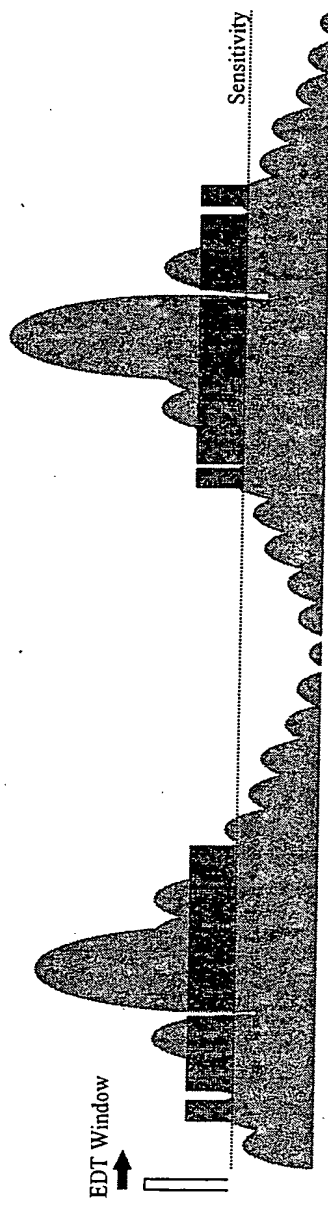


Figure 9

Figure 10A



*Discrete Illuminations (TIBS)*

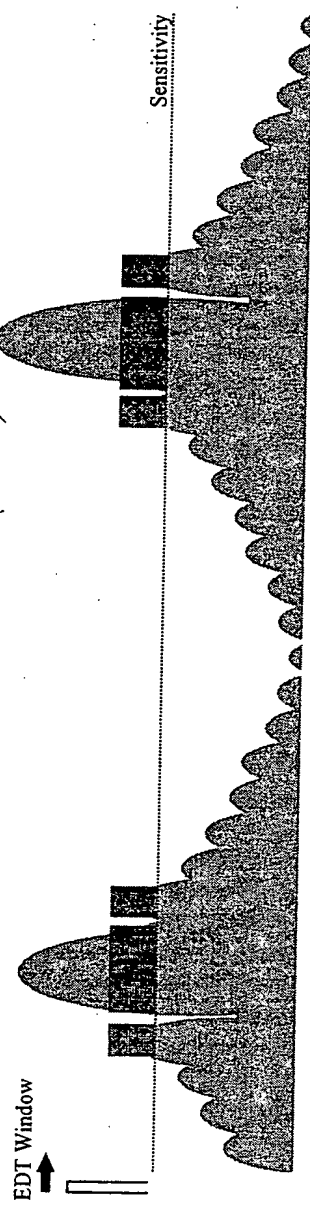


Figure 10B

1000 MHz      1050 MHz      1100 MHz      1150 MHz      1200 MHz      1250 MHz      1300 MHz      1350 MHz

Dwell	Dwell	Dwell	Dwell	Dwell	Dwell	Dwell	Dwell
1	2	3	4	5	6	7	8
duration = 25ms	25ms	25ms	25ms	25ms	25ms	25ms	25ms

time

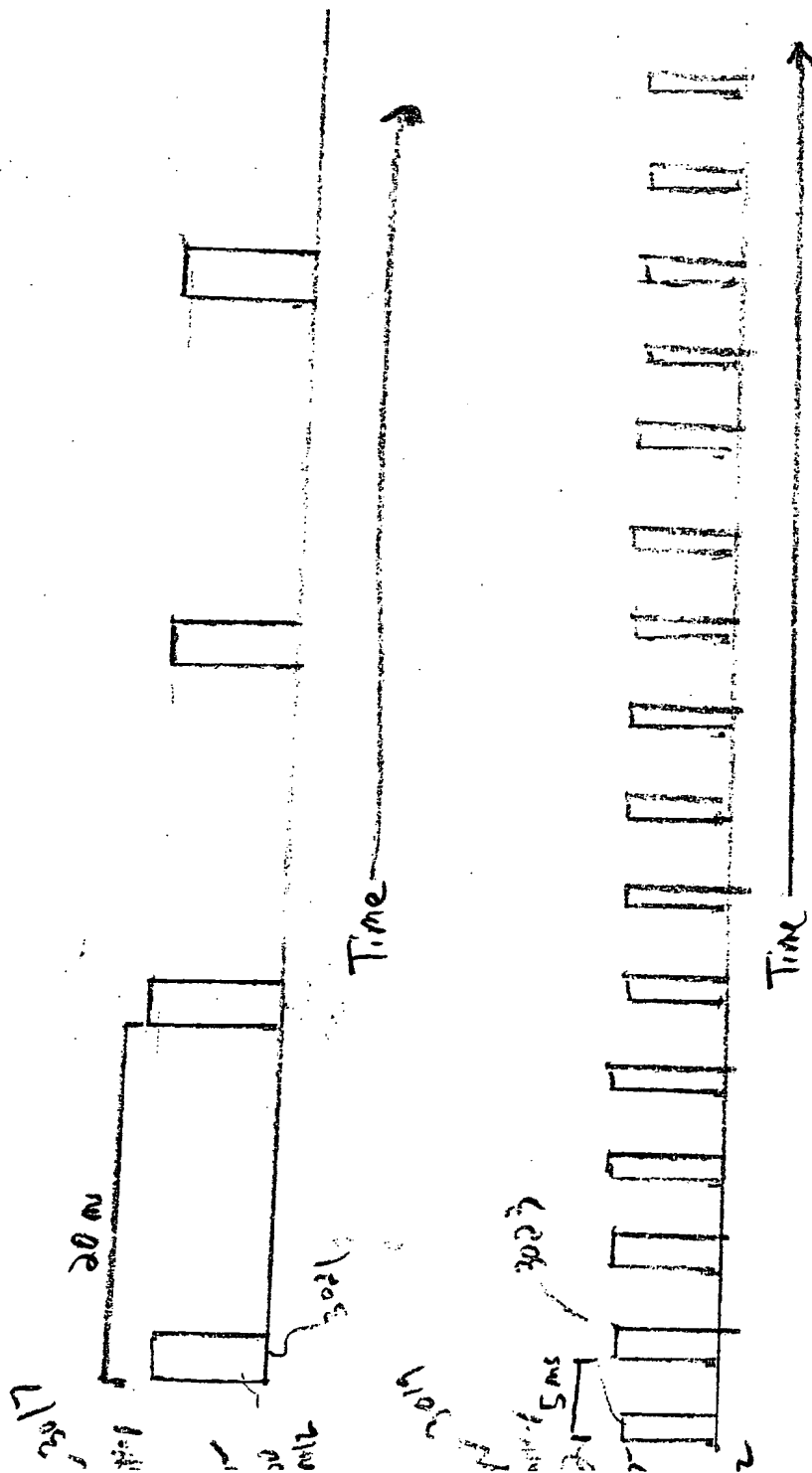
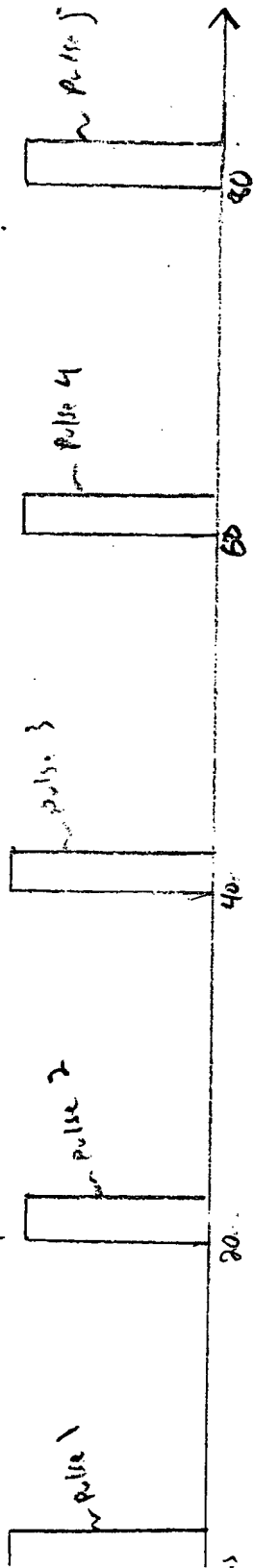


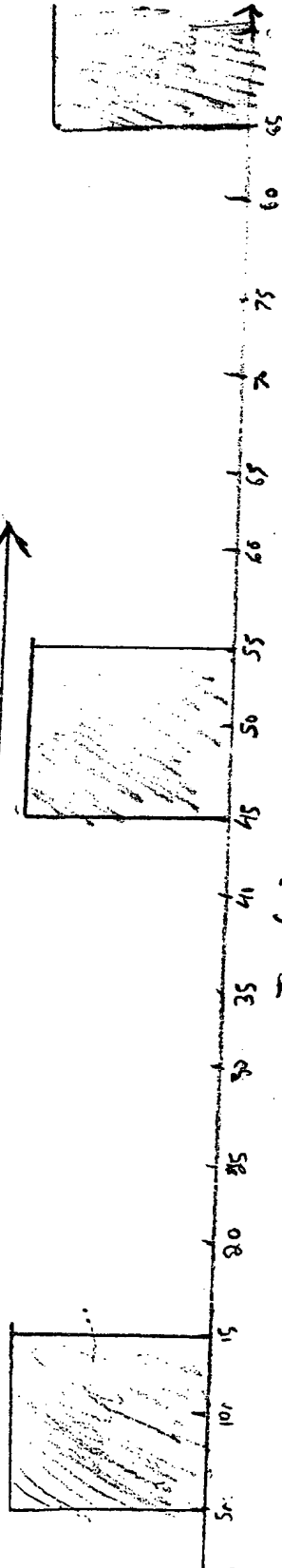
Figure 11

PRI = 20ns



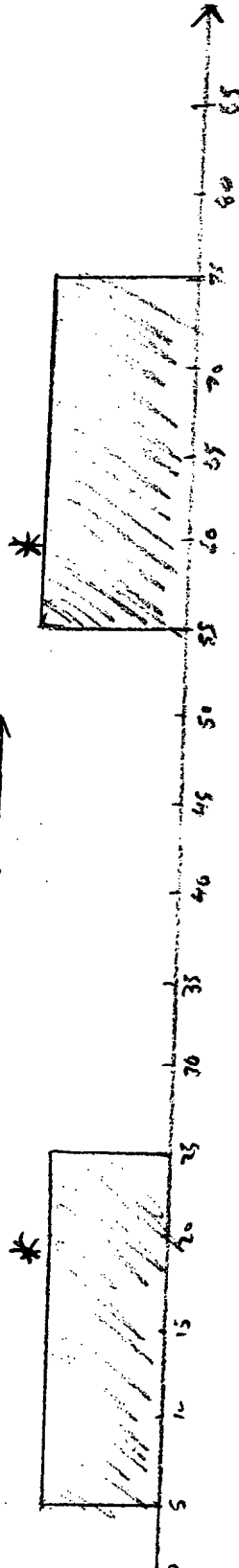
Emitter 3109

Time (ms)



Solution 1  
Drill Duration = 10ms  
Revolt Time = 40ms

Time (ms)



Solution 2  
Drill Duration = 20ms  
Revolt Time = 50ms

Figure 12

4000

Emitter Name	Operating Mode 250 MHz IF 15 MHz VSW	Operating Mode 30 MHz IF 15 MHz VSW	RF Min (MHz)	RF Max (MHz)	Mod (ms)
E1	RV T 100 ns	RV T 650 ns	1000	1300	3
E2	RV T 120 ns	RV T 780 ns	1220	1350	5
E3	RV T 110 ns	RV T 330 ns	1510	1810	2
E4	RV T 130 ns	RV T 390 ns	1730	1860	4

Figure B

0001

Dwell 1  
DD<sub>max</sub> = 5  
RVT<sub>IN</sub> = 100

$$\text{Cost} = 5\% = .05$$

### Solution

	1080	1090	1060	1050	1120	1150	1210	1240	1270
Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9	
DD max 3	DD max 3	DD max 3	DD max 3	DD max 3	DD max 3	DD max 3	DD max 5	DD max 5	
RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	RVT max 650	
cost	cost	cost	cost	cost	cost	cost	cost	cost	
$3/650 +$	$3/650 +$	$3/650 +$	$3/650 +$	$3/650 +$	$3/650 +$	$3/650 +$	$5/650 +$	$5/650 +$	$=$

### Solution 2

Fig 14A

1510

1760

Dwell 1	
DD <sub>max</sub> = 4 ms	
RV <sub>Tmax</sub> = 330 ms	

Solution 1

$$\text{Cost} = \frac{4}{330} = .012$$

1510 1540 1570 1600 1630 1660 1690 1720 1750 1780

Dwell 1	Dwell 2	Dwell 3	Dwell 4	Dwell 5	Dwell 6	Dwell 7	Dwell 8	Dwell 9
DD <sub>max</sub> 2	DD <sub>max</sub> 2	DD <sub>max</sub> 2	DD <sub>max</sub> 2	DD <sub>max</sub> 2	DD <sub>max</sub> 2	DD <sub>max</sub> 2	DD <sub>max</sub> 4	DD <sub>max</sub> 4
RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms	RV <sub>Tmax</sub> 330 ms

Solution 2

$$\text{Cost} = \frac{8}{330} + \frac{2}{330} + \frac{2}{330} + \frac{2}{330} + \frac{2}{330} + \frac{2}{330} + \frac{2}{330} + \frac{4}{330} + \frac{4}{330} = \frac{28}{330} = .08$$

Figure 14B



Figure 15

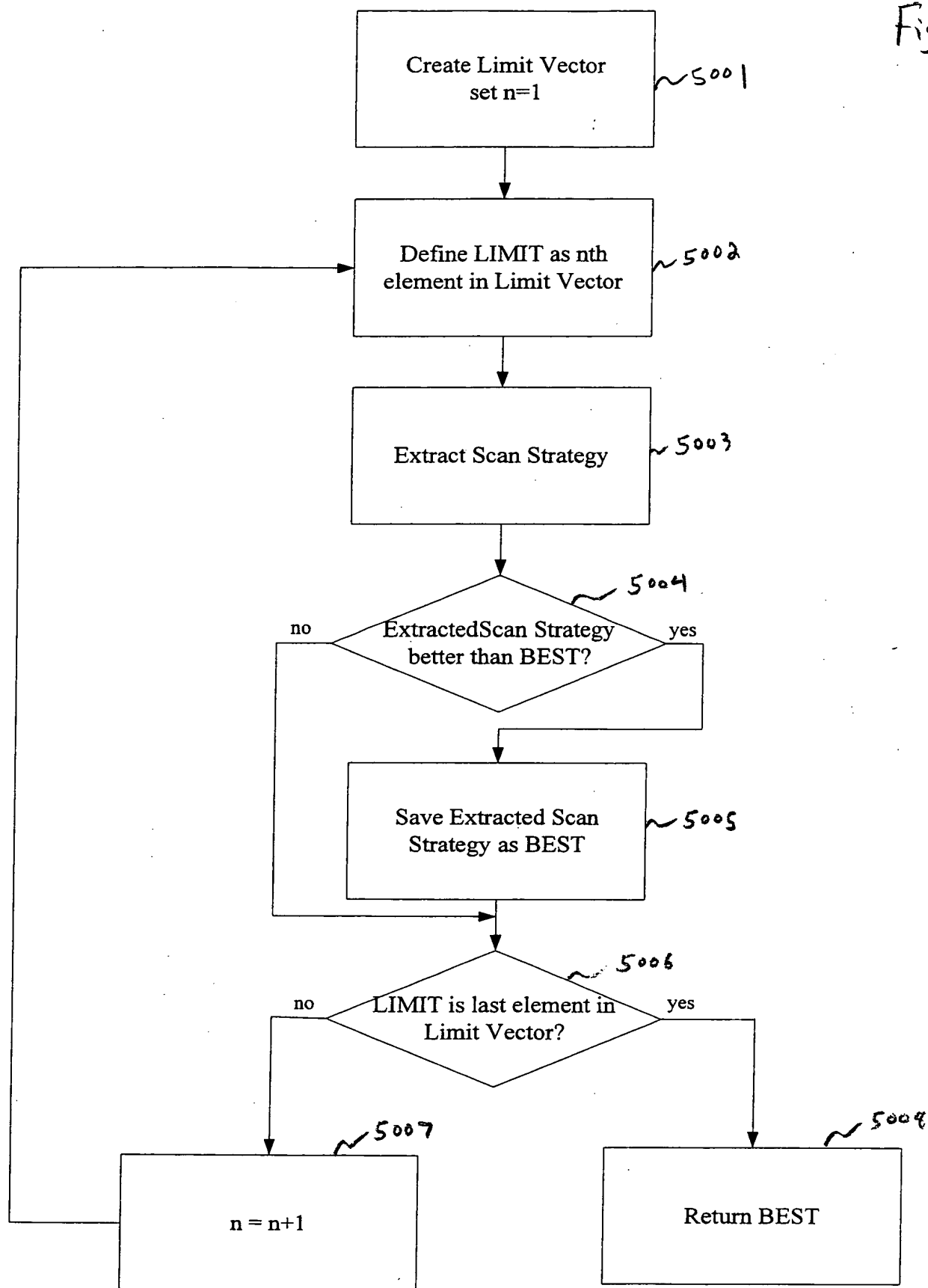
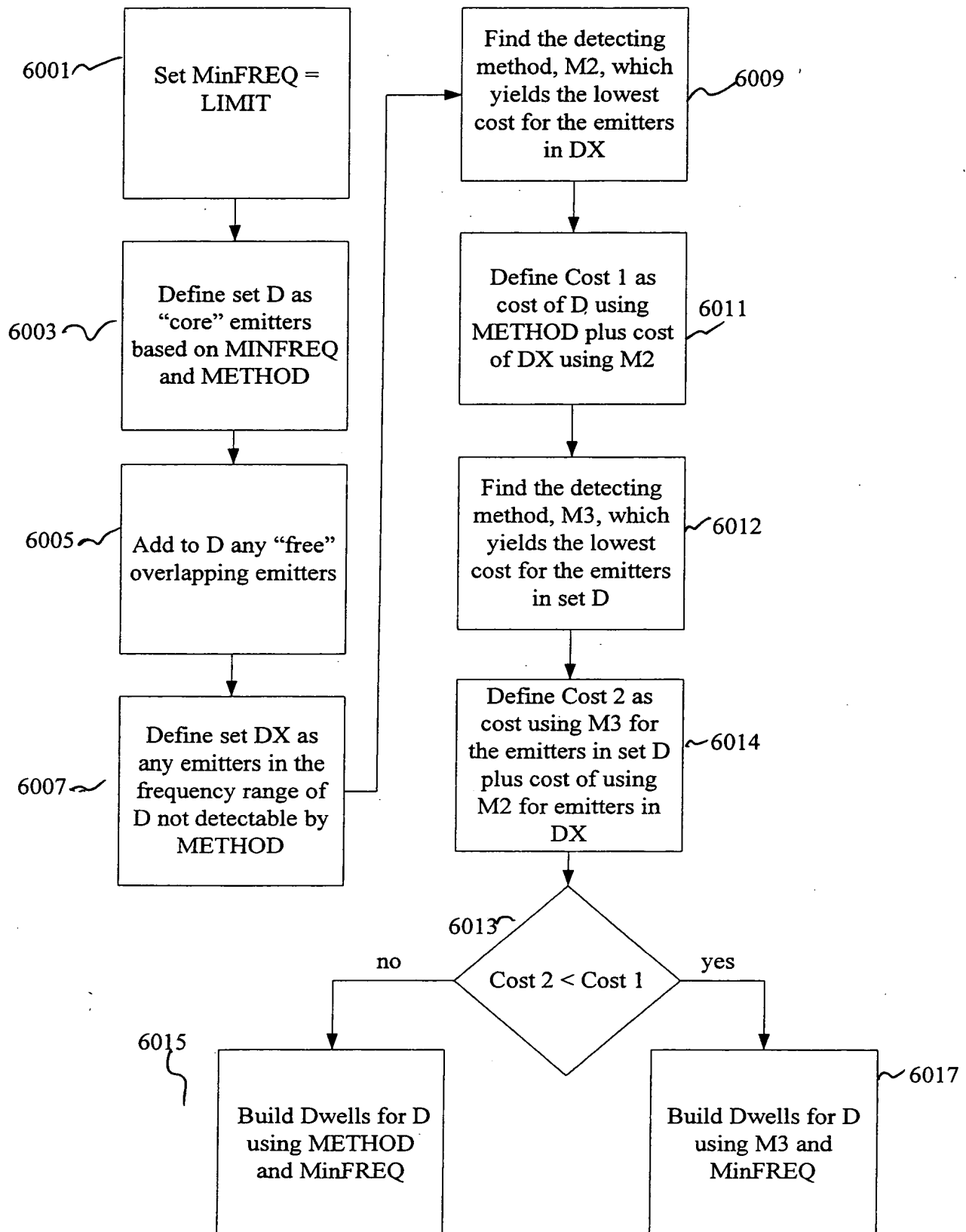


Figure 16



Name	RF Min	RF Max
E1	1100	1200
E2	1150	1250

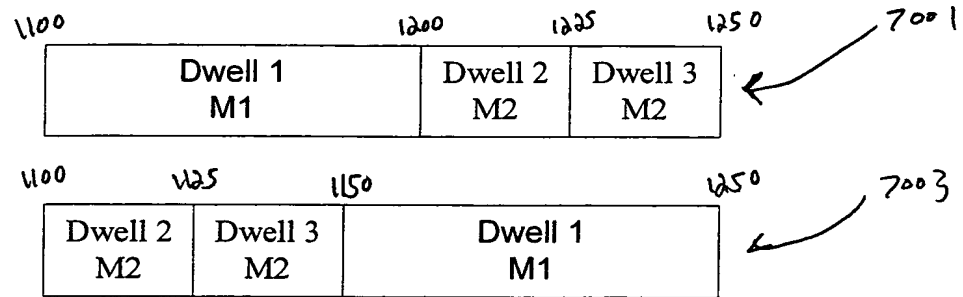
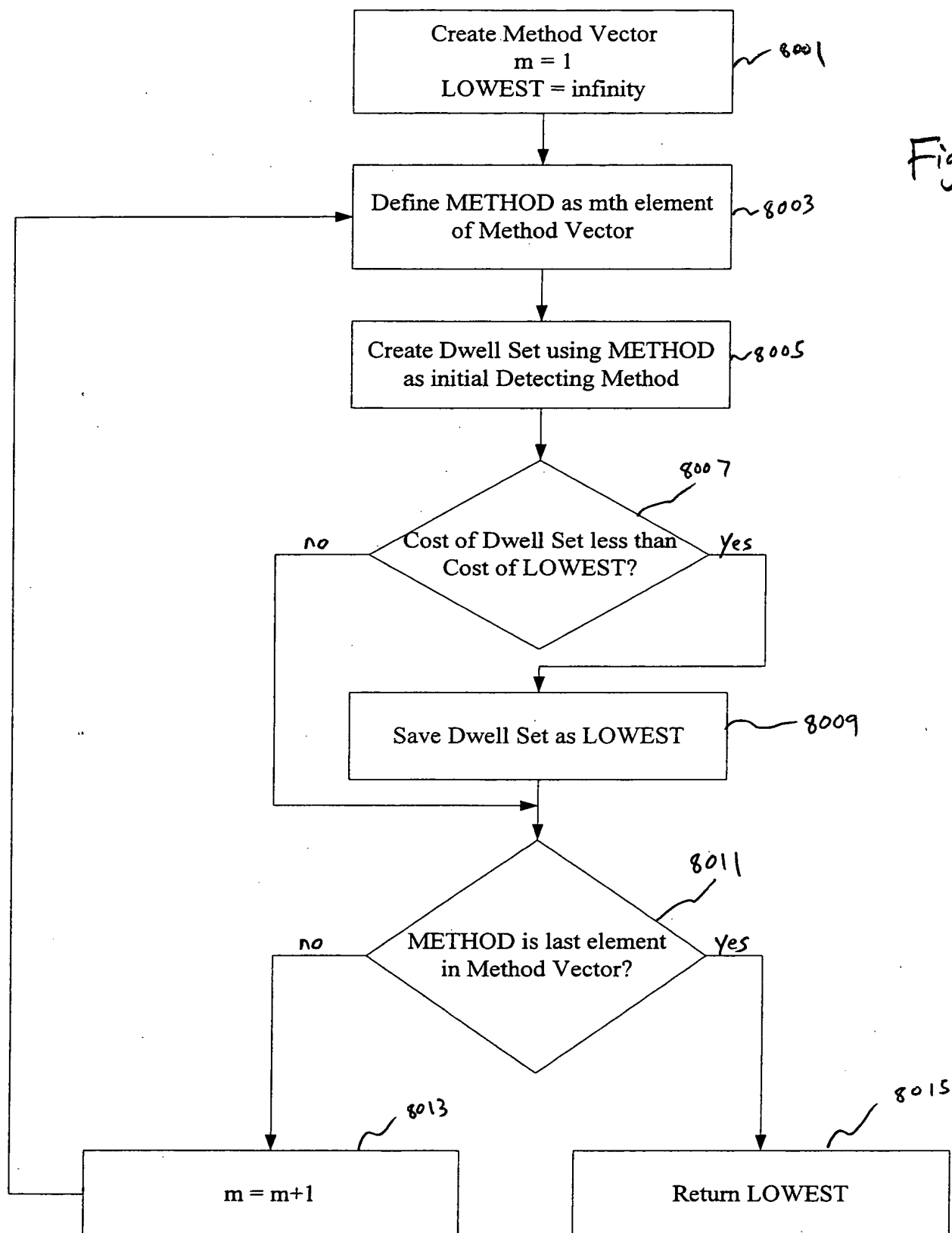


Figure 17

Figure 18



Emitter	Dwell Duration (ms)	Revisit Time (ms)
Emitter 1	1	500
Emitter 2	2	1200

Figure 19

Emitter	Dwell Duration (ms)	Revisit Time (ms)	Cost
Emitter 1	1	500	.002
Emitter 2	5	1000	.005

Figure 20

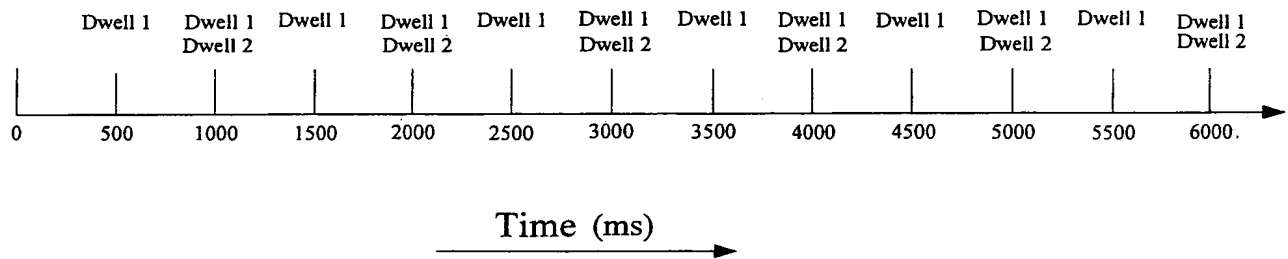


Figure 21

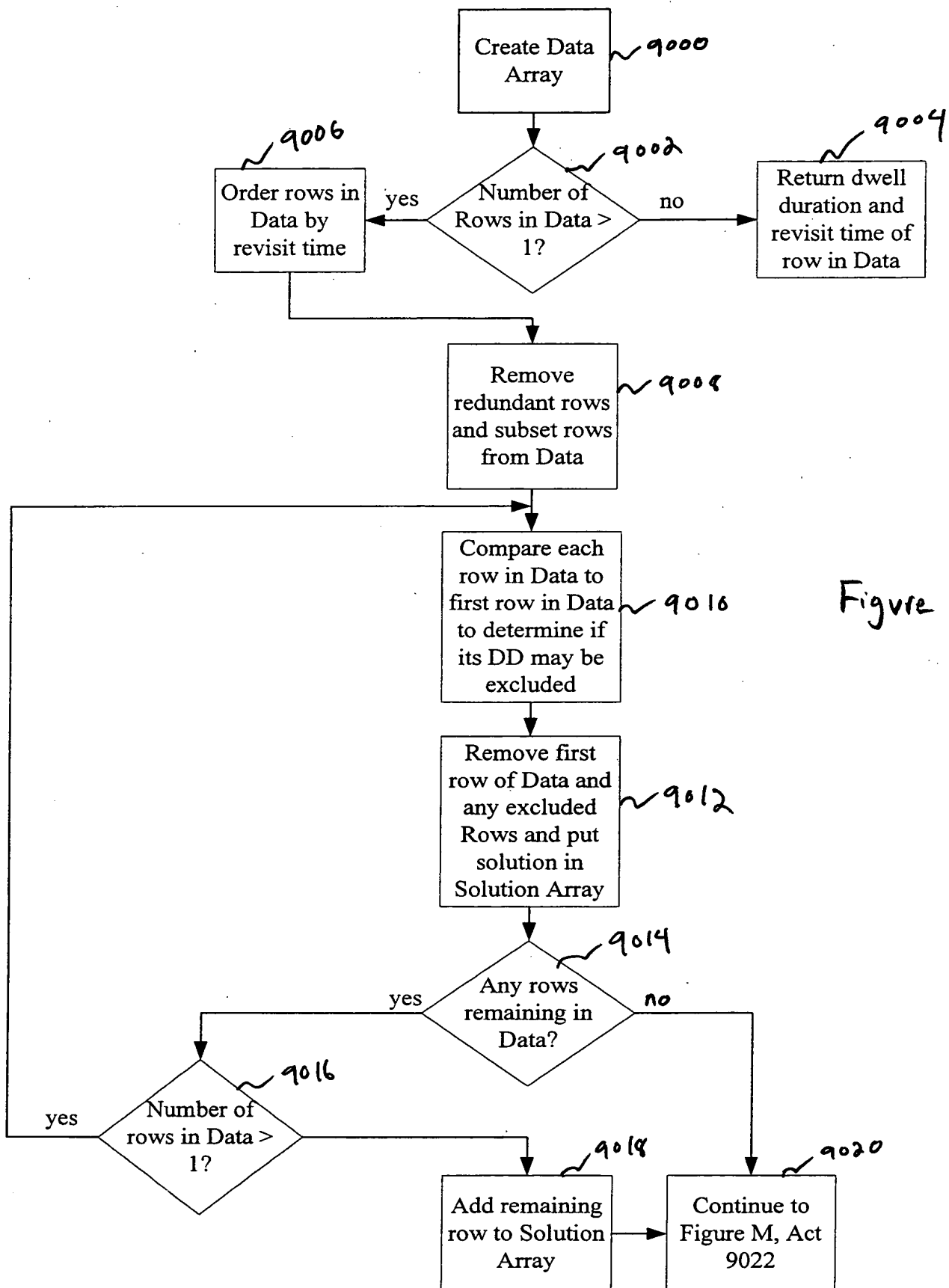


Figure 22



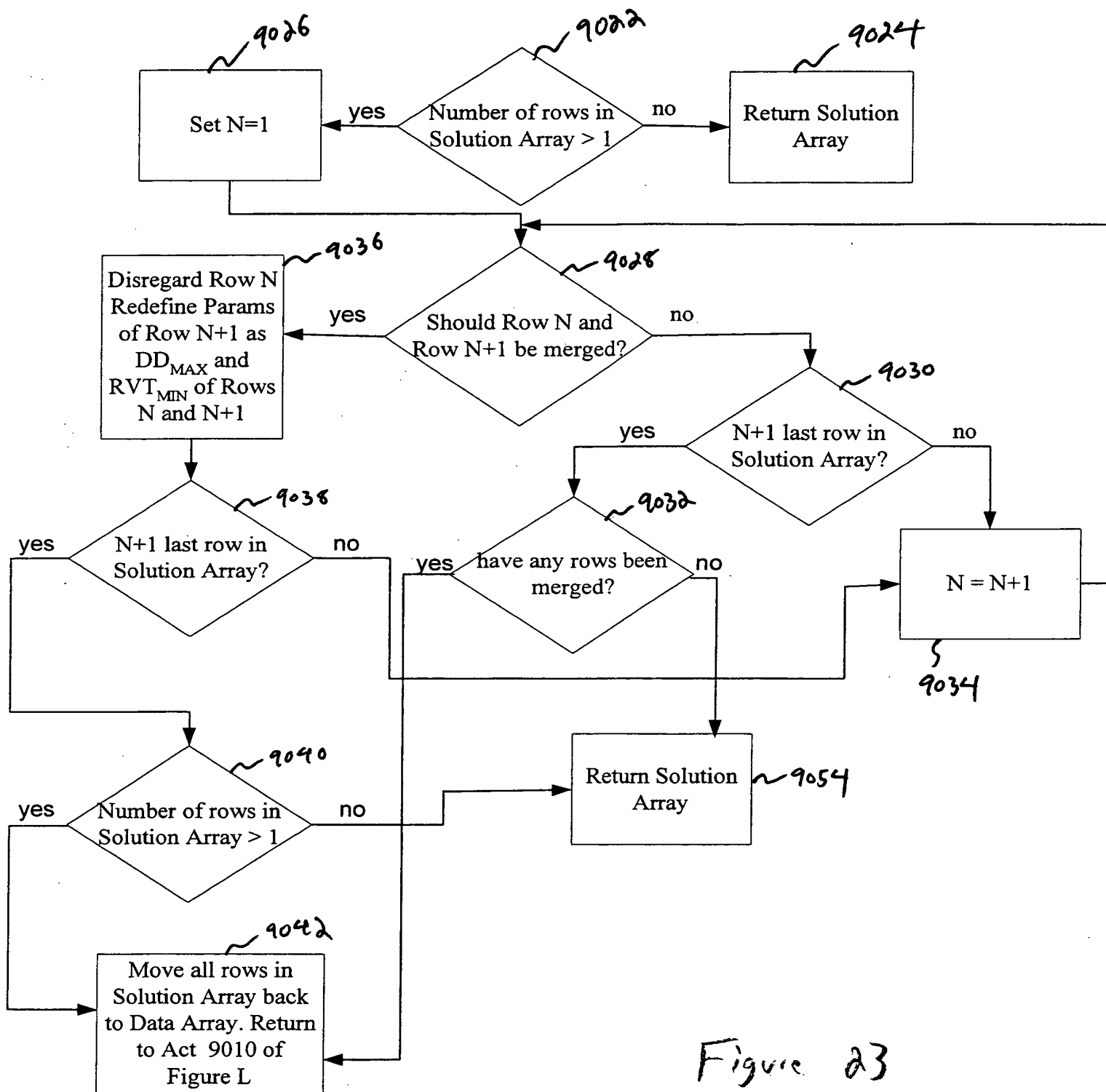


Figure 23

9044

Data		
MDT	EDT	RVT
3.05	17	2868
3	19	2000
3	19	2000
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000

Figure 24A

9044

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
0.5	3.5	1000
3	19	2000
3	19	2000
3.05	17	2868

9048  
9049  
9050

Figure 24B

Data		
MDT	EDT	RVT
1	7	500
2	9	700
2.3	11	800
3	19	2000
3.05	17	2868

9051  
9052

Figure 24C

9044

Data		
MDT	EDT	RVT
2	9	700
2.3	11	800

9046

Solution		
MDT	EDT	RVT
1	19	500

Figure 24D

9044

Data		
MDT	EDT	RVT

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24E

9046

Solution		
MDT	EDT	RVT
1	19	500
2	11	700

Figure 24F

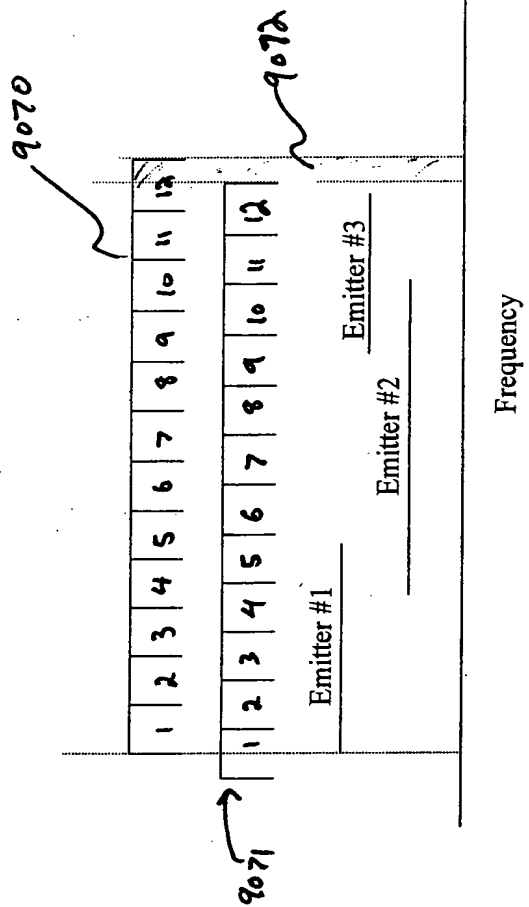


Figure 25

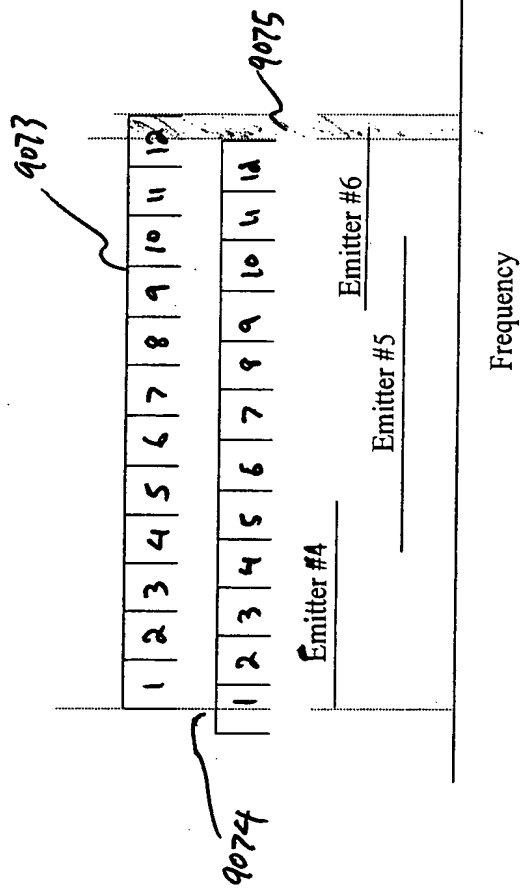


Figure 26

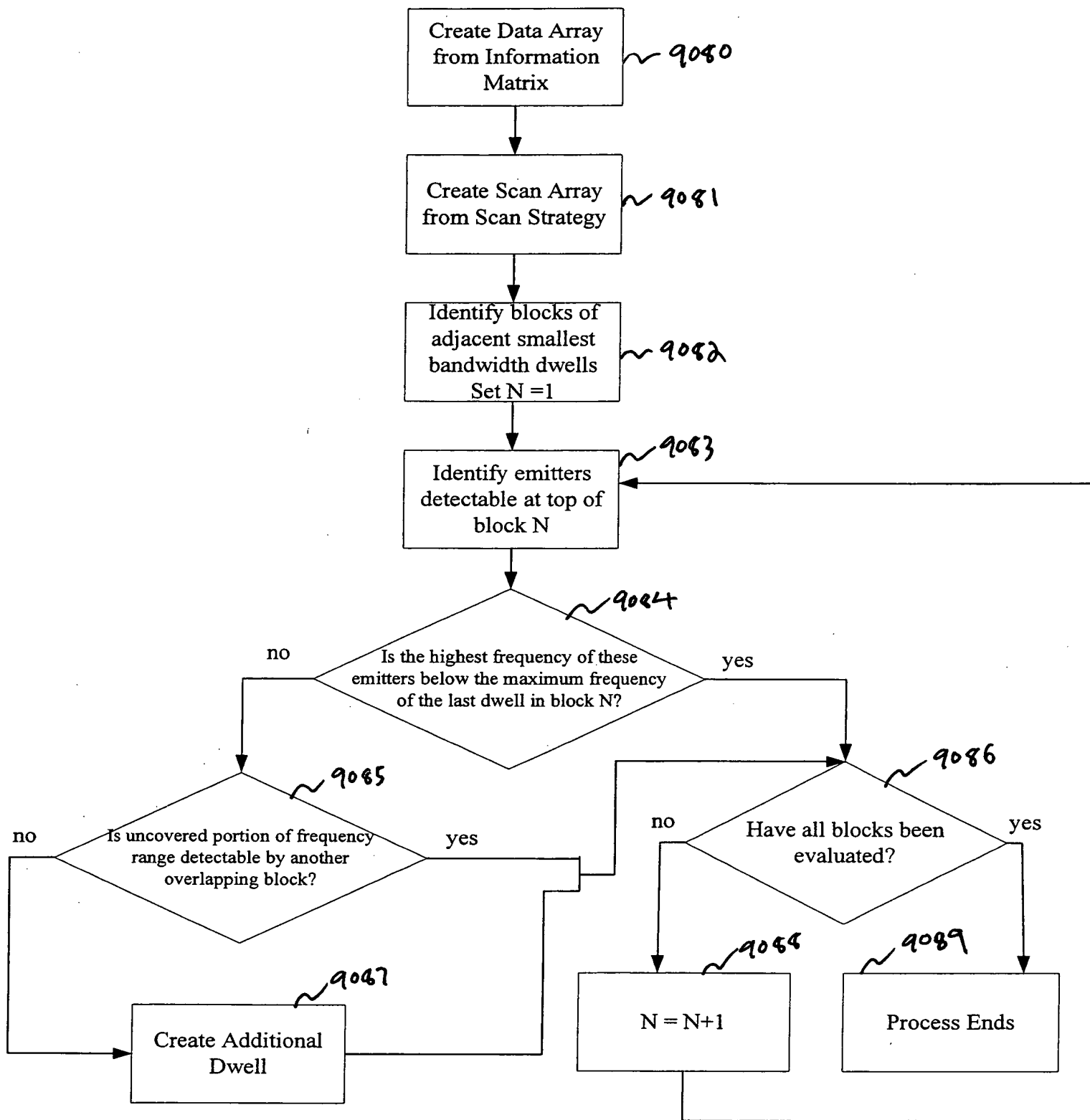


Figure 27

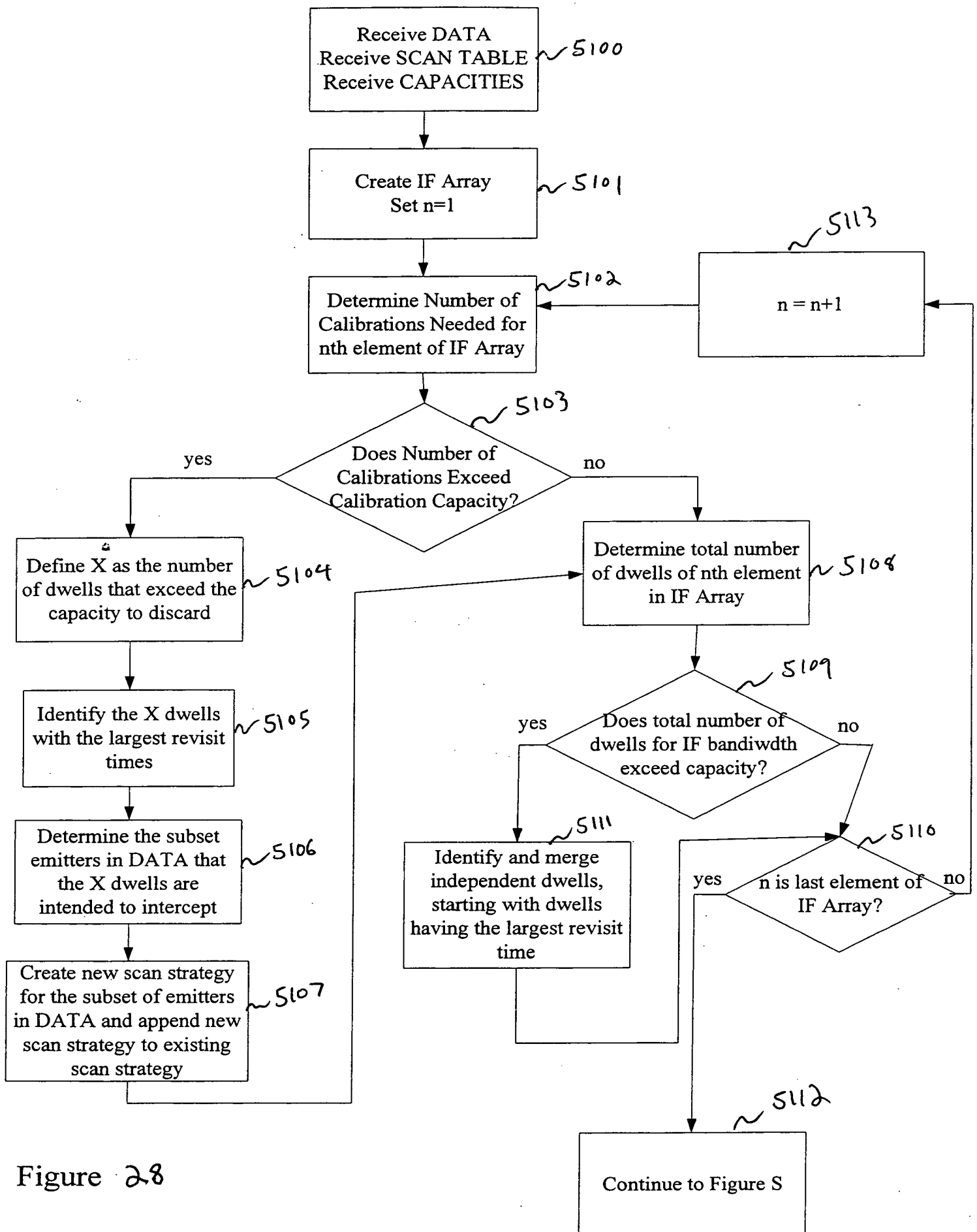


Figure 28

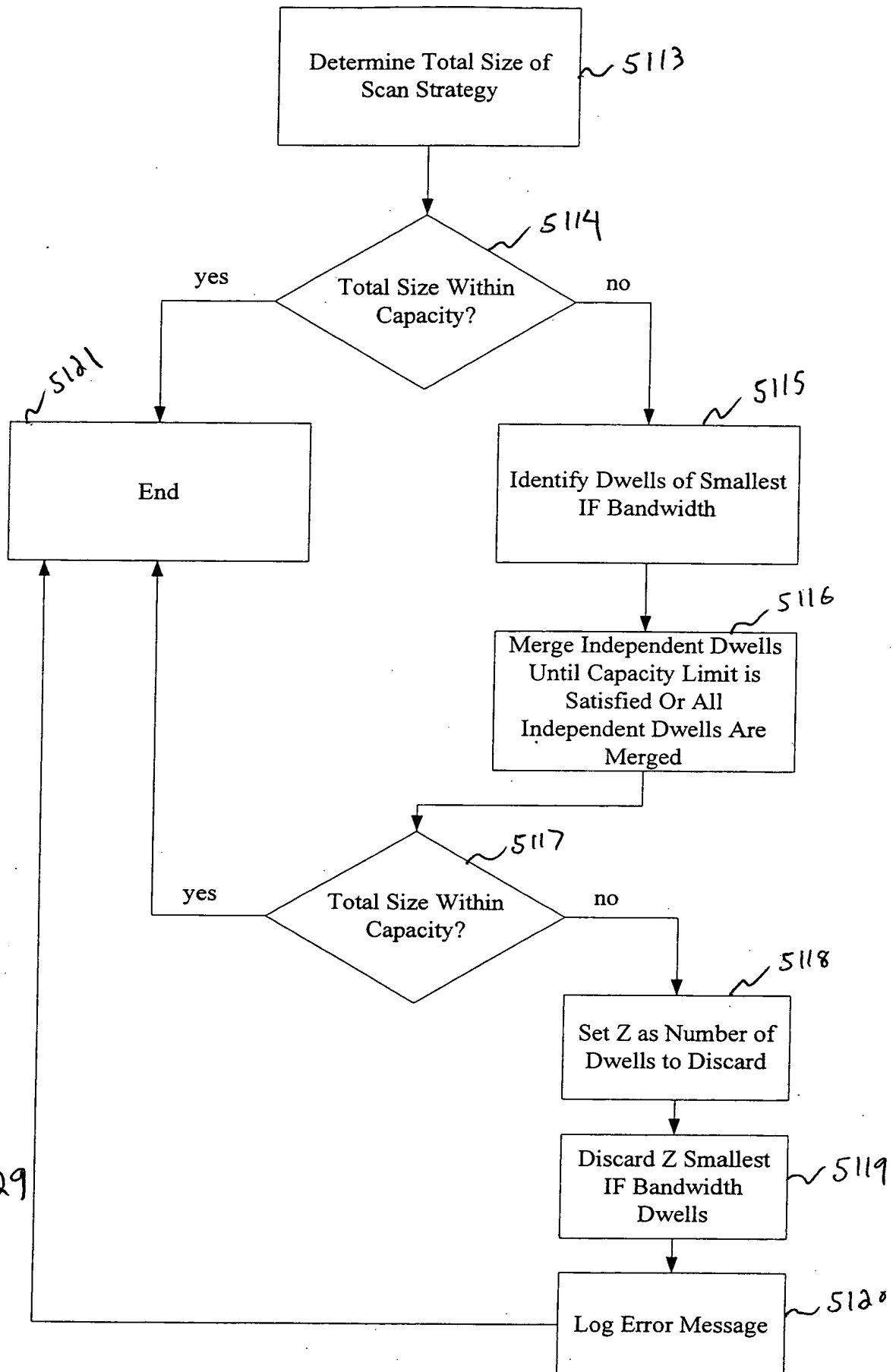


Figure 29

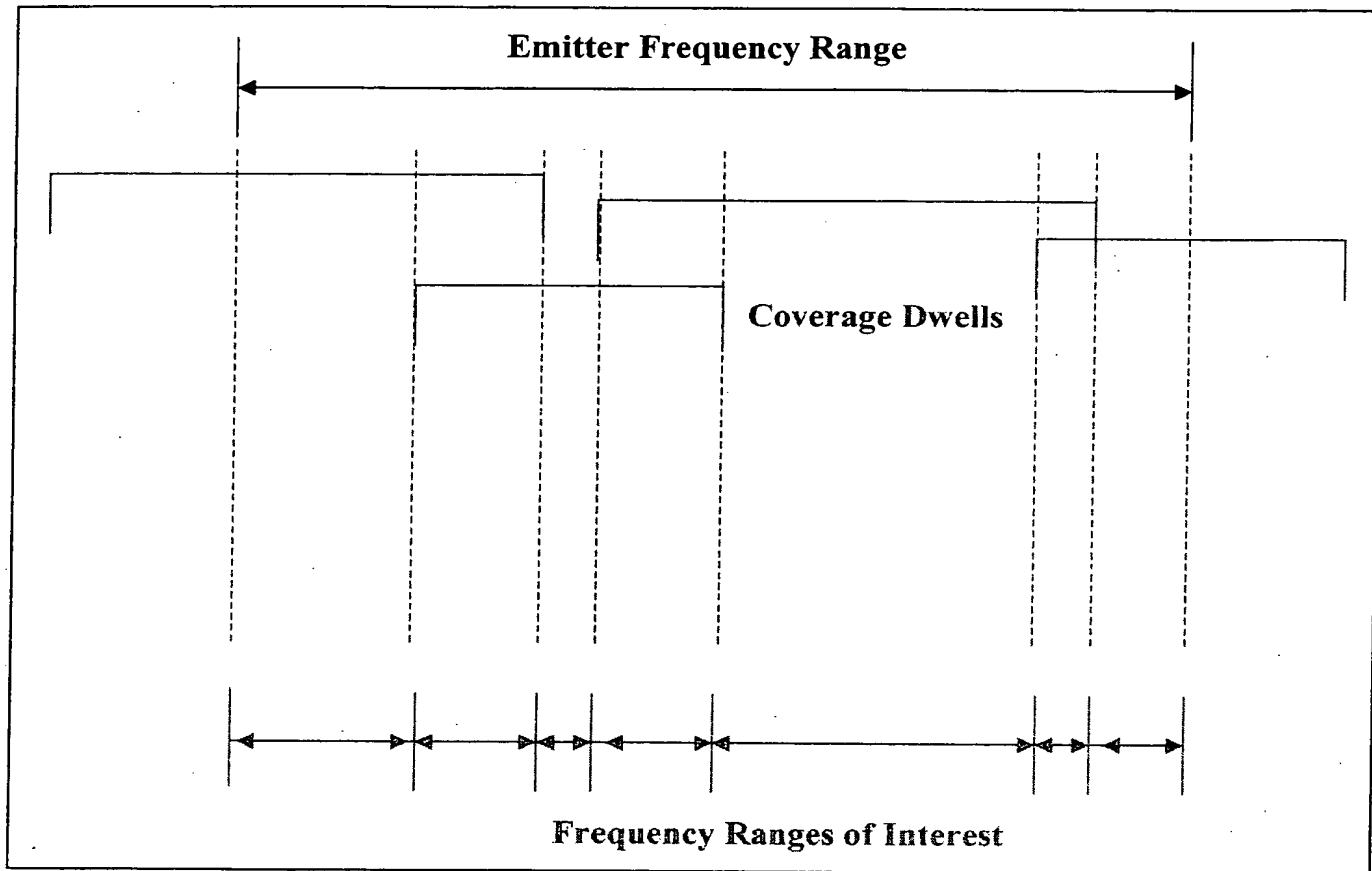


Figure 30



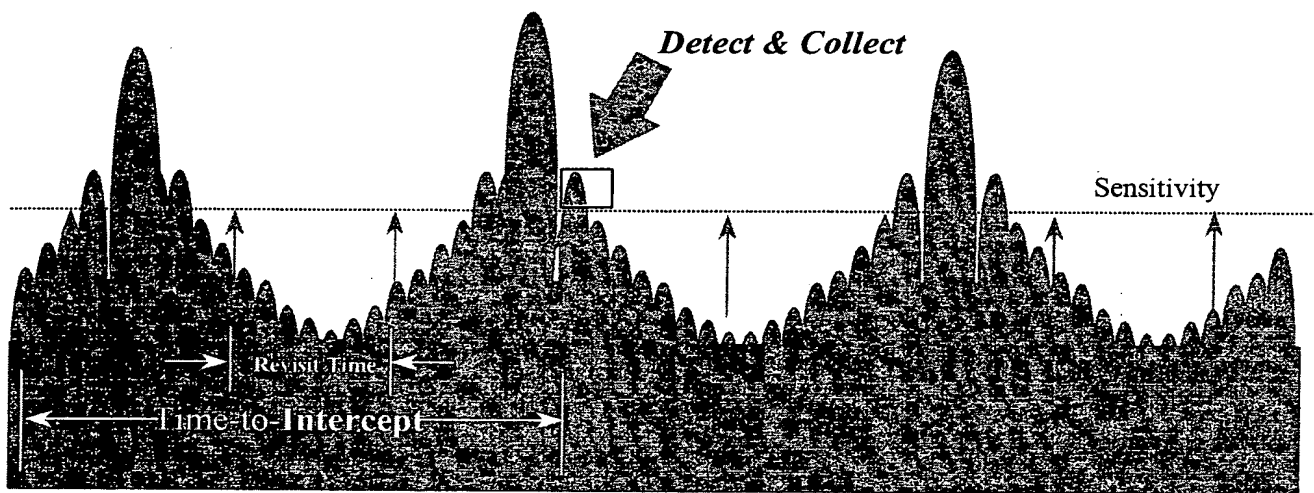


Figure 31

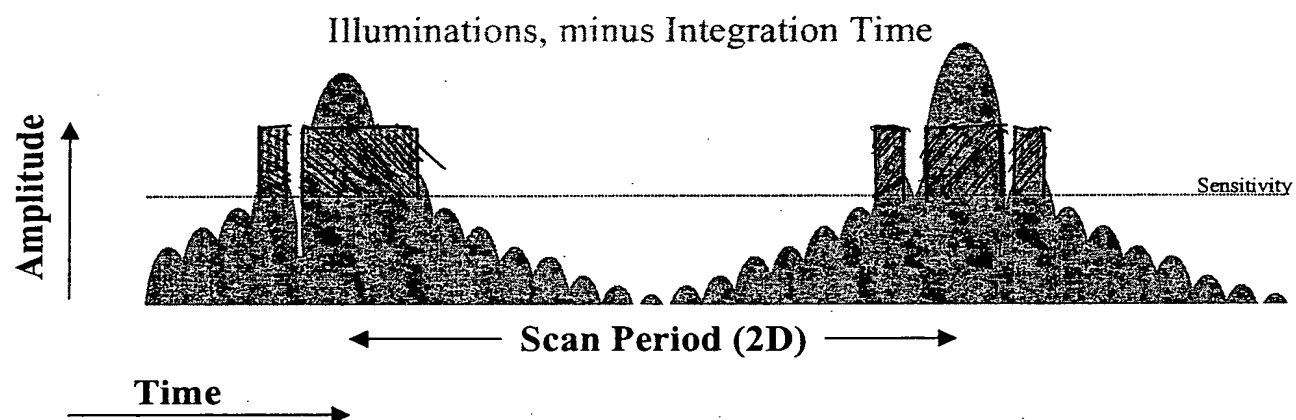


Figure 32